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INL Sitewide Operations and Maintenance Report for CERCLA Response Actions—FY 2004

August 2005

Idaho Cleanup Project

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INL Sitewide Operations and Maintenance Report for CERCLA Response Actions—FY 2004

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**Prepared for the
U.S. Department of Energy
DOE Idaho Operations Office**

ABSTRACT

This report documents how remedies mandated under the Comprehensive Environmental Response, Compensation, and Liability Act for the Idaho National Laboratory Site were operated and maintained during fiscal year 2004. The activities addressed in the *INEEL Sitewide Operations and Maintenance Plan for CERCLA Response Actions* are reported in this document. Waste Area Groups 7, 8, and 9 are not reported in this document. Waste Area Group 7 is an operating facility, and the status of its operations—for example, organic contamination in the vadose zone—is reported directly. Waste Area Groups 8 and 9 were not under the control of the U.S. Department of Energy Idaho Operations Office in fiscal year 2004. In addition, operations and maintenance of the New Pump and Treat Facility, located at Waste Area Group 1, are not reported in this document.

The *INEEL Sitewide Institutional Controls Plan* discusses the inspection, maintenance, repair, and reporting activities involving institutional controls at the Idaho National Laboratory Site. Therefore, the maintenance of institutional controls is not discussed in this report.

The *Idaho National Engineering and Environmental Laboratory Comprehensive Facilities and Land Use Plan* provides a reference to support this report by providing current and projected facility and land uses and by listing the Comprehensive Environmental Response, Compensation, and Liability Act sites at the Idaho National Laboratory Site.

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ACRONYMS

ARA	Auxiliary Reactor Area
BORAX	Boiling Water Reactor Experiment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFA	Central Facilities Area
FY	fiscal year
GPRS	global positioning radiometric scanner
INEEL	Idaho National Engineering and Environmental Laboratory
INL	Idaho National Laboratory
O&M	operations and maintenance
RTC	Reactor Technology Complex
SCA	soil contamination area
SL-1	Stationary Low-Power Reactor No. 1
TRA	Test Reactor Area
TSF	Technical Support Facility
WAG	waste area group
WRRTF	Water Reactor Research Test Facility

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1. INTRODUCTION/PURPOSE

This report documents how remedies mandated by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 USC 9601 et seq.) for the Idaho National Laboratory (INL) Site were operated and maintained during fiscal year (FY) 2004 (see Figure 1). Various records of decision mandate specific activities intended to ensure that the remedies remain protective of human health and the environment after the remedies are completed. In some cases, operations and maintenance (O&M) activities have been specified for CERCLA sites during the pre-remediation phase. This report includes pre- and post-remediation O&M activities. Results of the annual O&M inspection are presented on a waste area group (WAG) basis.

The activities addressed in the *INEEL Sitewide Operations and Maintenance Plan for CERCLA Response Actions* (DOE-ID 2004a) are reported here. These activities are not the daily O&M activities associated with operational facilities. Rather, the O&M activities discussed in this report address the protectiveness and integrity of remedial measures at the INL Site. Included in this report are the O&M activities for each WAG under direct control of U.S. Department of Energy Idaho Operations Office. WAGs 7, 8, and 9 are not reported in this document. WAG 7, is an operating facility, and the status of its operations—for example, organic contamination in the vadose zone—is reported directly. WAGs 8 and 9 were not under the control of the U.S. Department of Energy Idaho Operations Office in FY 2004. In addition, O&M activities at the New Pump and Treat Facility, located at WAG 1, are not reported in this document.

In addition, the *INEEL Sitewide Institutional Controls Plan* (DOE-ID 2004b) discusses the inspection, maintenance, repair, and reporting activities involving institutional controls at the INL Site. Therefore, the maintenance of institutional controls is not discussed in this report.

The cleanup schedule at the INL Site was accelerated during 2004. As remedies have been completed, some O&M activities are no longer needed, while others are in transition. Remedial activities made most WAG 1 and 5 sites inaccessible and/or obsolete for radiological surveys in FY 2004. Additionally, O&M inspections for subsidence or animal intrusion could not be conducted at the TSF-03 and WRRTF-01 sites due to remedial excavation in FY 2004.

The *Idaho National Engineering and Environmental Laboratory Comprehensive Facilities and Land Use Plan* (DOE-ID 1996) provides a reference to support this report by providing current and projected facility and land uses and by listing the CERCLA sites at the INL Site.

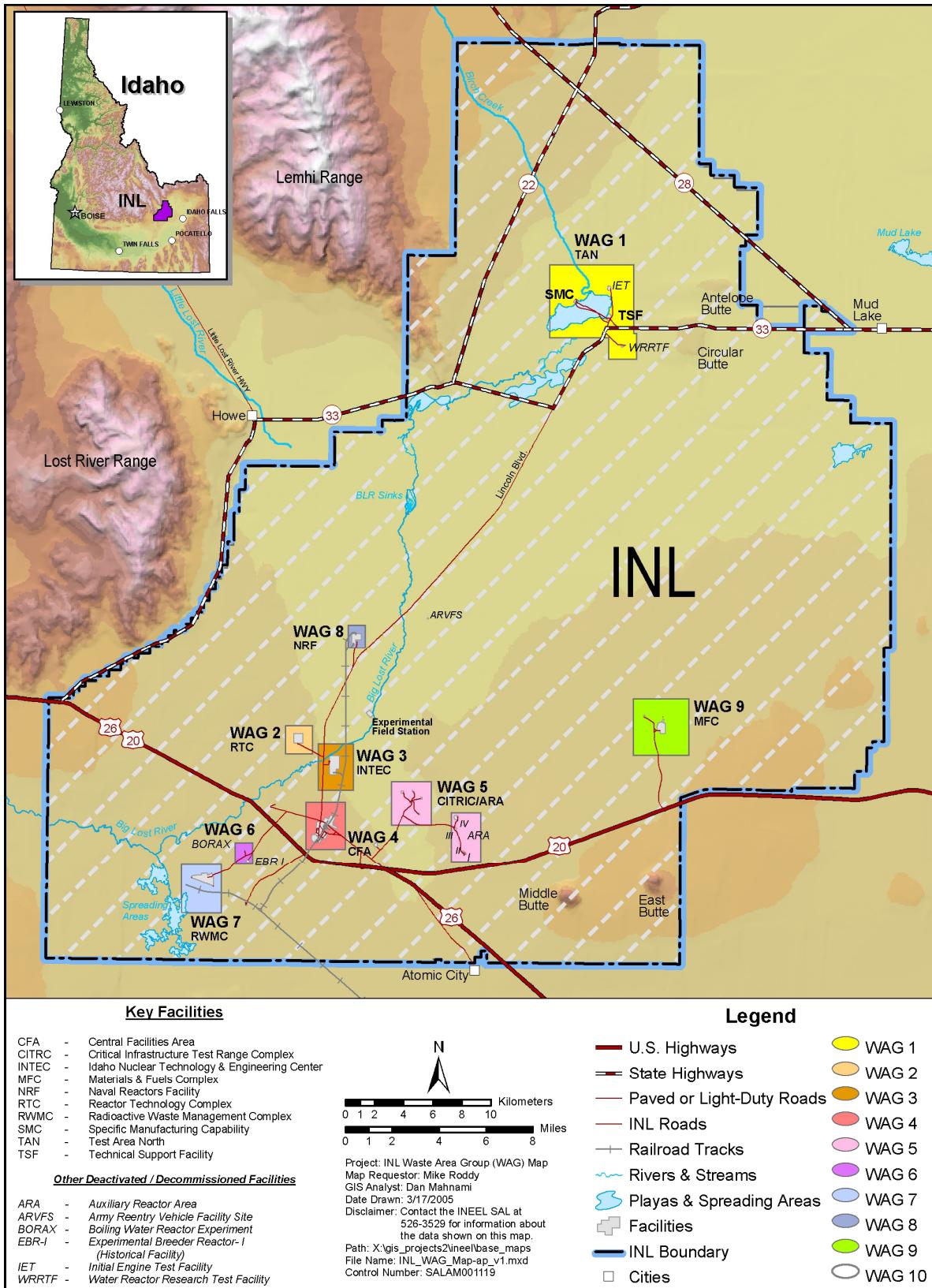


Figure 1. INL Site map showing WAG locations.